

Tue Oct 1, 2019 UTC

UTC	−Antares		−Jupiter		−Saturn		−Altair		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	32°31.3′	2299	39°35.4′	2218	65°19.8′	2177	81°55.3′	2847	29°26.6′	5432
1	31°56.0′	2308	38°59.4′	2224	64°43.5′	2183	81°24.2′	2855	29°43.8′	5308
2	31°20.7′	2318	38°23.5′	2229	64°07.2′	2188	80°53.1′	2862	30°01.5′	5191
3	30°45.5′	2329	37°47.6′	2234	63°31.0′	2193	80°22.1′	2870	30°19.6′	5081
4	30°10.4′	2339	37°11.7′	2240	62°54.7′	2199	79°51.1′	2878	30°38.2′	4978
5	29°35.4′	2350	36°35.9′	2246	62°18.6′	2204	79°20.1′	2886	30°57.3′	4881
6	29°00.5′	2361	36°00.1′	2251	61°42.5′	2209	78°49.3′	2894	31°16.8′	4789
7	28°25.7′	2373	35°24.4′	2257	61°06.4′	2215	78°18.5′	2903	31°36.7′	4703
8	27°50.9′	2385	34°48.7′	2263	60°30.4′	2220	77°47.7′	2912	31°57.0′	4622
9	27°16.3′	2398	34°13.1′	2269	59°54.4′	2226	77°17.0′	2921	32°17.7′	4545
10	26°41.7′	2411	33°37.5′	2275	59°18.4′	2232	76°46.4′	2930	32°38.8′	4472
11	26°07.3′	2425	33°01.9′	2280	58°42.5′	2237	76°15.8′	2939	33°00.2′	4403
12	25°32.9′	2439	32°26.4′	2286	58°06.7′	2243	75°45.3′	2948	33°22.0′	4339
13	24°58.7′	2454	31°51.0′	2293	57°30.9′	2249	75°14.9′	2958	33°44.1′	4277
14	24°24.6′	2470	31°15.6′	2299	56°55.1′	2254	74°44.5′	2968	34°06.5′	4219
15	23°50.7′	2486	30°40.3′	2305	56°19.4′	2260	74°14.2′	2978	34°29.2′	4164
16	23°16.8′	2503	30°05.0′	2311	55°43.8′	2266	73°44.0′	2988	34°52.2′	4112
17	22°43.1′	2521	29°29.7′	2317	55°08.2′	2272	73°13.9′	2999	35°15.5′	4063
18	22°09.5′	2541	28°54.5′	2323	54°32.6′	2278	72°43.8′	3009	35°39.1′	4016
19	21°36.1′	2561	28°19.4′	2330	53°57.1′	2284	72°13.8′	3020	36°02.9′	3972
20	21°02.8′	2583	27°44.3′	2336	53°21.6′	2290	71°43.8′	3031	36°26.9′	3929
21	20°29.7′	2606	27°09.3′	2343	52°46.2′	2296	71°14.0′	3042	36°51.2′	3890
22	19°56.8′	2630	26°34.3′	2349	52°10.9′	2302	70°44.2′	3054	37°15.7′	3852
23	19°24.0′	2656	25°59.4′	2356	51°35.5′	2308	70°14.5′	3066	37°40.4′	3816

Wed Oct 2, 2019 UTC

UTC	+Sun		−Jupiter		−Antares		−Saturn		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	44°46.2′	2655	25°24.5′	2362	18°51.5′	2684	51°00.3′	2314	38°05.3′	3782
1	45°18.8′	2661	24°49.7′	2369	18°19.2′	2715	50°25.0′	2320	38°30.4′	3750
2	45°51.3′	2666	24°14.9′	2376	17°47.0′	2747	49°49.9′	2326	38°55.7′	3719
3	46°23.7′	2672	23°40.2′	2383	17°15.2′	2782	49°14.7′	2332	39°21.2′	3690
4	46°56.2′	2679	23°05.5′	2390	16°43.5′	2821	48°39.7′	2338	39°46.9′	3663
5	47°28.6′	2685	22°30.9′	2397	16°12.2′	2863	48°04.7′	2344	40°12.7′	3637
6	48°00.9′	2691	21°56.3′	2404	15°41.2′	2908	47°29.7′	2350	40°38.6′	3612
7	48°33.2′	2697	21°21.8′	2411	15°10.5′	2959	46°54.8′	2357	41°04.8′	3588
8	49°05.4′	2703	20°47.4′	2418	14°40.1′	3014	46°19.9′	2363	41°31.0′	3566
9	49°37.6′	2709	20°13.0′	2425	14°10.1′	3076	45°45.1′	2369	41°57.4′	3545
10	50°09.8′	2716	19°38.7′	2433	13°40.6′	3144	45°10.3′	2375	42°24.0′	3525
11	50°41.9′	2722	19°04.4′	2440	13°11.5′	3221	44°35.6′	2381	42°50.6′	3506
12	51°13.9′	2728	18°30.2′	2448	12°42.9′	3307	44°00.9′	2388	43°17.4′	3488
13	51°46.0′	2734	17°56.1′	2456	12°14.9′	3404	43°26.3′	2394	43°44.2′	3470
14	52°17.9′	2741	17°22.0′	2464	11°47.5′	3514	42°51.7′	2400	44°11.2′	3454
15	52°49.8′	2747	16°48.0′	2472	11°20.8′	3640	42°17.2′	2407	44°38.3′	3439
16	53°21.7′	2754	16°14.0′	2480	–	–	41°42.7′	2413	45°05.5′	3424
17	53°53.5′	2760	15°40.1′	2489	–	–	41°08.3′	2419	45°32.8′	3411
18	54°25.3′	2767	15°06.3′	2498	–	–	40°33.9′	2426	46°00.1′	3398
19	54°57.1′	2773	14°32.5′	2507	–	–	39°59.6′	2432	46°27.6′	3385
20	55°28.7′	2780	13°58.8′	2516	–	–	39°25.3′	2438	46°55.1′	3374
21	56°00.4′	2786	13°25.2′	2526	–	–	38°51.1′	2445	47°22.7′	3363
22	56°32.0′	2793	12°51.7′	2536	–	–	38°16.9′	2451	47°50.3′	3352
23	57°03.5′	2799	12°18.2′	2547	–	–	37°42.8′	2457	48°18.1′	3342

Thu Oct 3, 2019 UTC

UTC	+Sun		-Jupiter		-Saturn		-Formalhaut		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	57°35.0'	2806	11°44.8'	2559	37°08.7'	2464	88°22.9'	2655	48°45.9'	3333
1	58°06.5'	2812	11°11.5'	2571	36°34.7'	2470	87°50.4'	2661	49°13.7'	3325
2	58°37.9'	2819	10°38.4'	2585	36°00.7'	2476	87°17.9'	2668	49°41.6'	3316
3	59°09.2'	2825	10°05.3'	2599	35°26.8'	2483	86°45.4'	2674	50°09.6'	3309
4	59°40.5'	2832	9°32.3'	2615	34°52.9'	2489	86°13.0'	2681	50°37.6'	3301
5	60°11.8'	2838	8°59.4'	2633	34°19.1'	2495	85°40.6'	2687	51°05.6'	3295
6	60°43.0'	2845	8°26.7'	2654	33°45.3'	2502	85°08.3'	2694	51°33.7'	3288
7	61°14.1'	2852	7°54.1'	2677	33°11.6'	2508	84°36.1'	2701	52°01.9'	3283
8	61°45.3'	2858	7°21.8'	2705	32°37.9'	2514	84°03.8'	2707	52°30.1'	3277
9	62°16.3'	2865	6°49.6'	2738	32°04.3'	2521	83°31.7'	2714	52°58.3'	3272
10	62°47.4'	2871	6°17.6'	2779	31°30.7'	2527	82°59.6'	2721	53°26.5'	3267
11	63°18.3'	2878	5°46.0'	2831	30°57.1'	2533	82°27.5'	2728	53°54.8'	3263
12	63°49.3'	2884	5°14.7'	2898	30°23.7'	2539	81°55.5'	2734	54°23.1'	3259
13	64°20.1'	2891	4°43.9'	2989	29°50.2'	2546	81°23.5'	2741	54°51.4'	3255
14	64°51.0'	2898	-	-	29°16.8'	2552	80°51.6'	2748	55°19.8'	3252
15	65°21.8'	2904	-	-	28°43.5'	2558	80°19.7'	2755	55°48.2'	3248
16	65°52.5'	2911	-	-	28°10.2'	2564	79°47.9'	2762	56°16.6'	3246
17	66°23.2'	2917	-	-	27°37.0'	2571	79°16.1'	2769	56°45.0'	3243
18	66°53.9'	2924	-	-	27°03.8'	2577	78°44.4'	2776	57°13.4'	3241
19	67°24.5'	2930	-	-	26°30.6'	2583	78°12.7'	2783	57°41.9'	3239
20	67°55.0'	2937	-	-	25°57.5'	2589	77°41.1'	2790	58°10.3'	3237
21	68°25.5'	2943	-	-	25°24.5'	2595	77°09.6'	2797	58°38.8'	3235
22	68°56.0'	2950	-	-	24°51.5'	2601	76°38.1'	2804	59°07.3'	3234
23	69°26.4'	2956	-	-	24°18.5'	2608	76°06.6'	2811	59°35.8'	3233

Fri Oct 4, 2019 UTC

UTC	+Sun		-Saturn		+Antares		-Formalhaut		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	69°56.8'	2963	23°45.6'	2614	12°15.5'	3532	75°35.2'	2818	60°04.3'	3232
1	70°27.1'	2969	23°12.7'	2620	12°42.1'	3462	75°03.8'	2825	60°32.8'	3231
2	70°57.4'	2975	22°39.9'	2626	13°09.1'	3400	74°32.5'	2832	61°01.3'	3230
3	71°27.7'	2982	22°07.1'	2632	13°36.6'	3347	74°01.3'	2839	61°29.8'	3230
4	71°57.9'	2988	21°34.4'	2638	14°04.3'	3299	73°30.1'	2847	61°58.3'	3230
5	72°28.0'	2994	21°01.7'	2644	14°32.4'	3258	72°58.9'	2854	62°26.9'	3230
6	72°58.1'	3001	20°29.1'	2650	15°00.7'	3221	72°27.8'	2861	62°55.4'	3230
7	73°28.2'	3007	19°56.5'	2656	15°29.3'	3188	71°56.8'	2868	63°23.9'	3230
8	73°58.2'	3013	19°23.9'	2662	15°58.1'	3159	71°25.8'	2876	63°52.4'	3231
9	74°28.2'	3020	18°51.4'	2668	16°27.1'	3134	70°54.8'	2883	64°20.9'	3231
10	74°58.1'	3026	18°18.9'	2674	16°56.2'	3111	70°23.9'	2890	64°49.5'	3232
11	75°28.0'	3032	17°46.5'	2679	17°25.6'	3090	69°53.1'	2897	65°18.0'	3233
12	75°57.9'	3038	17°14.1'	2685	17°55.0'	3072	69°22.3'	2905	65°46.5'	3234
13	76°27.7'	3044	16°41.8'	2691	18°24.6'	3056	68°51.6'	2912	66°15.0'	3235
14	76°57.4'	3050	16°09.5'	2697	18°54.3'	3042	68°20.9'	2920	66°43.4'	3236
15	77°27.2'	3057	15°37.3'	2703	19°24.1'	3029	67°50.2'	2927	67°11.9'	3238
16	77°56.8'	3063	15°05.1'	2708	19°53.9'	3018	67°19.7'	2935	67°40.4'	3239
17	78°26.5'	3069	14°32.9'	2714	20°23.9'	3008	66°49.1'	2942	68°08.9'	3241
18	78°56.1'	3075	14°00.8'	2720	20°53.9'	2999	66°18.7'	2950	68°37.3'	3242
19	79°25.6'	3081	13°28.7'	2725	21°24.0'	2991	65°48.2'	2957	69°05.7'	3244
20	79°55.2'	3086	12°56.7'	2731	21°54.1'	2984	65°17.9'	2965	69°34.2'	3246
21	80°24.6'	3092	12°24.7'	2736	22°24.3'	2978	64°47.5'	2973	70°02.6'	3248
22	80°54.1'	3098	11°52.7'	2742	22°54.5'	2972	64°17.3'	2980	70°31.0'	3250
23	81°23.5'	3104	11°20.8'	2748	23°24.8'	2968	63°47.1'	2988	70°59.4'	3252

Sat Oct 5, 2019 UTC

UTC	+Sun		-Saturn		+Jupiter		+Antares		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	81°52.8'	3110	10°49.0'	2753	14°36.3'	2827	23°55.1'	2963	63°16.9'	2996
1	82°22.2'	3116	10°17.1'	2759	15°07.6'	2830	24°25.4'	2960	62°46.8'	3003
2	82°51.4'	3121	9°45.3'	2764	15°38.9'	2833	24°55.8'	2957	62°16.8'	3011
3	83°20.7'	3127	9°13.6'	2770	16°10.1'	2837	25°26.1'	2955	61°46.8'	3019
4	83°49.9'	3133	8°41.9'	2775	16°41.4'	2841	25°56.5'	2952	61°16.8'	3027
5	84°19.0'	3138	8°10.2'	2781	17°12.6'	2844	26°26.9'	2951	60°47.0'	3035
6	84°48.2'	3144	7°38.6'	2786	17°43.7'	2848	26°57.3'	2949	60°17.1'	3043
7	85°17.3'	3150	7°07.0'	2792	18°14.9'	2852	27°27.8'	2948	59°47.3'	3051
8	85°46.3'	3155	6°35.4'	2797	18°46.0'	2856	27°58.2'	2948	59°17.6'	3059
9	86°15.3'	3161	6°03.9'	2803	19°17.1'	2860	28°28.6'	2947	58°48.0'	3067
10	86°44.3'	3166	5°32.5'	2809	19°48.1'	2864	28°59.1'	2947	58°18.3'	3075
11	87°13.3'	3171	5°01.1'	2815	20°19.1'	2869	29°29.5'	2947	57°48.8'	3083
12	87°42.2'	3177	4°29.7'	2822	20°50.1'	2873	29°59.9'	2948	57°19.3'	3092
13	88°11.0'	3182	3°58.3'	2829	21°21.1'	2877	30°30.4'	2948	56°49.9'	3100
14	88°39.9'	3187	3°27.1'	2838	21°52.0'	2881	31°00.8'	2949	56°20.5'	3109
15	89°08.7'	3192	2°55.9'	2849	22°22.9'	2885	31°31.2'	2950	55°51.1'	3117
16	89°37.5'	3198	2°24.7'	2865	22°53.8'	2890	32°01.6'	2951	55°21.9'	3126
17	90°06.2'	3203	1°53.7'	2893	23°24.7'	2894	32°32.1'	2952	54°52.7'	3134
18	90°34.9'	3208	1°22.9'	2963	23°55.5'	2898	33°02.5'	2953	54°23.5'	3143
19	91°03.5'	3213	–	–	24°26.3'	2902	33°32.9'	2955	53°54.4'	3152
20	91°32.2'	3218	–	–	24°57.0'	2906	34°03.3'	2956	53°25.4'	3161
21	92°00.8'	3223	–	–	25°27.8'	2911	34°33.6'	2958	52°56.4'	3170
22	92°29.3'	3228	–	–	25°58.5'	2915	35°04.0'	2959	52°27.5'	3179
23	92°57.9'	3233	1°15.7'	2930	26°29.1'	2919	35°34.4'	2961	51°58.6'	3188

Sun Oct 6, 2019 UTC

UTC	+Sun		+Saturn		+Jupiter		+Antares		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	93°26.4'	3238	1°46.2'	2906	26°59.8'	2923	36°04.7'	2963	51°29.8'	3197
1	93°54.9'	3242	2°17.0'	2897	27°30.4'	2927	36°35.0'	2965	51°01.1'	3206
2	94°23.3'	3247	2°47.8'	2895	28°00.9'	2931	37°05.3'	2967	50°32.4'	3216
3	94°51.7'	3252	3°18.6'	2895	28°31.5'	2935	37°35.6'	2969	50°03.8'	3225
4	95°20.1'	3257	3°49.4'	2896	29°02.0'	2939	38°05.9'	2971	49°35.2'	3235
5	95°48.4'	3261	4°20.2'	2899	29°32.5'	2943	38°36.2'	2973	49°06.7'	3245
6	96°16.7'	3266	4°51.0'	2902	30°03.0'	2947	39°06.5'	2975	48°38.3'	3255
7	96°45.0'	3270	5°21.7'	2905	30°33.4'	2951	39°36.7'	2977	48°10.0'	3265
8	97°13.3'	3275	5°52.5'	2908	31°03.8'	2955	40°06.9'	2980	47°41.7'	3275
9	97°41.5'	3279	6°23.2'	2912	31°34.2'	2959	40°37.1'	2982	47°13.4'	3286
10	98°09.7'	3283	6°53.9'	2915	32°04.6'	2963	41°07.3'	2984	46°45.3'	3296
11	98°37.9'	3288	7°24.5'	2919	32°34.9'	2967	41°37.5'	2987	46°17.2'	3307
12	99°06.0'	3292	7°55.2'	2923	33°05.2'	2970	42°07.7'	2989	45°49.2'	3318
13	99°34.1'	3296	8°25.8'	2926	33°35.5'	2974	42°37.8'	2991	45°21.2'	3329
14	100°02.2'	3301	8°56.4'	2930	34°05.7'	2978	43°08.0'	2994	44°53.3'	3340
15	100°30.3'	3305	9°26.9'	2934	34°36.0'	2981	43°38.1'	2996	44°25.5'	3352
16	100°58.3'	3309	9°57.5'	2937	35°06.2'	2985	44°08.2'	2998	43°57.8'	3364
17	101°26.3'	3313	10°28.0'	2941	35°36.3'	2989	44°38.3'	3001	43°30.2'	3376
18	101°54.3'	3317	10°58.4'	2944	36°06.5'	2992	45°08.3'	3003	43°02.6'	3388
19	102°22.3'	3321	11°28.9'	2948	36°36.6'	2996	45°38.4'	3005	42°35.1'	3400
20	102°50.2'	3325	11°59.3'	2951	37°06.7'	2999	46°08.4'	3008	42°07.6'	3413
21	103°18.1'	3329	12°29.8'	2955	37°36.8'	3003	46°38.4'	3010	41°40.3'	3426
22	103°46.0'	3332	13°00.1'	2958	38°06.8'	3006	47°08.4'	3012	41°13.0'	3439
23	104°13.8'	3336	13°30.5'	2961	38°36.9'	3009	47°38.4'	3015	40°45.9'	3453

Mon Oct 7, 2019 UTC

UTC	+Sun		+Saturn		+Jupiter		+Antares		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	104°41.7'	3340	14°00.8'	2965	39°06.9'	3012	48°08.4'	3017	40°18.8'	3467
1	105°09.5'	3344	14°31.2'	2968	39°36.9'	3016	48°38.3'	3019	39°51.8'	3481
2	105°37.3'	3347	15°01.5'	2971	40°06.8'	3019	49°08.3'	3022	39°24.9'	3496
3	106°05.0'	3351	15°31.7'	2974	40°36.8'	3022	49°38.2'	3024	38°58.0'	3511
4	106°32.8'	3354	16°02.0'	2978	41°06.7'	3025	50°08.1'	3026	38°31.3'	3527
5	107°00.5'	3358	16°32.2'	2981	41°36.6'	3028	50°38.0'	3028	38°04.7'	3543
6	107°28.2'	3361	17°02.4'	2984	42°06.5'	3031	51°07.9'	3031	37°38.1'	3559
7	107°55.8'	3365	17°32.6'	2987	42°36.3'	3034	51°37.7'	3033	37°11.7'	3576
8	108°23.5'	3368	18°02.8'	2990	43°06.2'	3037	52°07.6'	3035	36°45.3'	3593
9	108°51.1'	3371	18°32.9'	2993	43°36.0'	3040	52°37.4'	3037	36°19.1'	3611
10	109°18.7'	3374	19°03.0'	2996	44°05.8'	3043	53°07.2'	3039	35°53.0'	3629
11	109°46.3'	3378	19°33.1'	2998	44°35.5'	3046	53°37.0'	3041	35°27.0'	3648
12	110°13.9'	3381	20°03.2'	3001	45°05.3'	3049	54°06.8'	3043	35°01.1'	3668
13	110°41.4'	3384	20°33.3'	3004	45°35.0'	3051	54°36.6'	3045	34°35.3'	3688
14	111°09.0'	3387	21°03.3'	3007	46°04.8'	3054	55°06.4'	3047	34°09.6'	3709
15	111°36.5'	3390	21°33.3'	3009	46°34.5'	3057	55°36.1'	3049	33°44.1'	3731
16	112°04.0'	3393	22°03.3'	3012	47°04.1'	3059	56°05.8'	3051	33°18.7'	3753
17	112°31.4'	3396	22°33.3'	3014	47°33.8'	3062	56°35.5'	3053	32°53.4'	3777
18	112°58.9'	3399	23°03.3'	3017	48°03.4'	3064	57°05.2'	3055	32°28.2'	3801
19	113°26.3'	3401	23°33.3'	3019	48°33.1'	3067	57°34.9'	3057	32°03.2'	3826
20	113°53.7'	3404	24°03.2'	3022	49°02.7'	3069	58°04.6'	3059	31°38.4'	3852
21	114°21.1'	3407	24°33.1'	3024	49°32.3'	3071	58°34.3'	3061	31°13.7'	3879
22	114°48.5'	3410	25°03.0'	3027	50°01.9'	3074	59°03.9'	3063	30°49.1'	3908
23	115°15.9'	3412	25°32.9'	3029	50°31.4'	3076	59°33.6'	3064	30°24.7'	3937

Tue Oct 8, 2019 UTC

UTC	+Sun		+Saturn		+Jupiter		+Antares		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	115°43.2'	3415	26°02.8'	3031	51°01.0'	3078	60°03.2'	3066	30°00.5'	3968
1	116°10.6'	3417	26°32.6'	3033	51°30.5'	3080	60°32.8'	3068	29°36.4'	4000
2	116°37.9'	3420	27°02.5'	3035	52°00.0'	3082	61°02.4'	3070	29°12.5'	4033
3	117°05.2'	3422	27°32.3'	3037	52°29.5'	3085	61°32.0'	3071	28°48.8'	4068
4	117°32.5'	3425	28°02.1'	3040	52°59.0'	3087	62°01.6'	3073	28°25.3'	4104
5	117°59.7'	3427	28°31.9'	3042	53°28.5'	3089	62°31.2'	3074	28°02.0'	4142
6	118°27.0'	3429	29°01.7'	3044	53°58.0'	3091	63°00.7'	3076	27°38.8'	4182
7	118°54.2'	3432	29°31.5'	3045	54°27.4'	3092	63°30.3'	3077	27°15.9'	4224
8	119°21.5'	3434	30°01.2'	3047	54°56.9'	3094	63°59.8'	3079	26°53.3'	4268
9	119°48.7'	3436	30°31.0'	3049	55°26.3'	3096	64°29.3'	3080	26°30.8'	4314
10	120°15.9'	3438	31°00.7'	3051	55°55.7'	3098	64°58.9'	3082	26°08.6'	4363
11	120°43.1'	3440	31°30.4'	3053	56°25.1'	3100	65°28.4'	3083	25°46.6'	4414
12	121°10.2'	3442	32°00.1'	3054	56°54.5'	3101	65°57.9'	3085	25°24.9'	4467
13	121°37.4'	3444	32°29.8'	3056	57°23.9'	3103	66°27.4'	3086	25°03.4'	4524
14	122°04.5'	3446	32°59.5'	3058	57°53.2'	3105	66°56.9'	3087	24°42.3'	4583
15	122°31.7'	3448	33°29.2'	3059	58°22.6'	3106	67°26.3'	3088	24°21.4'	4646
16	122°58.8'	3450	33°58.9'	3061	58°51.9'	3108	67°55.8'	3090	24°00.8'	4712
17	123°25.9'	3452	34°28.5'	3062	59°21.3'	3109	68°25.2'	3091	23°40.5'	4783
18	123°53.0'	3454	34°58.2'	3064	59°50.6'	3111	68°54.7'	3092	23°20.6'	4857
19	124°20.1'	3455	35°27.8'	3065	60°19.9'	3112	69°24.1'	3093	23°01.0'	4936
20	124°47.2'	3457	35°57.4'	3067	60°49.2'	3113	69°53.6'	3094	22°41.7'	5019
21	125°14.2'	3459	36°27.0'	3068	61°18.5'	3115	70°23.0'	3095	22°22.8'	5108
22	125°41.3'	3461	36°56.6'	3069	61°47.8'	3116	70°52.4'	3096	22°04.3'	5202
23	126°08.3'	3462	37°26.2'	3070	62°17.1'	3117	71°21.8'	3097	21°46.2'	5302

Wed Oct 9, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Aldebaran		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	37°55.8'	3072	62°46.3'	3118	71°51.2'	3098	107°34.4'	3064	21°28.5'	5409
1	38°25.4'	3073	63°15.6'	3120	72°20.6'	3099	107°04.8'	3066	21°11.2'	5523
2	38°55.0'	3074	63°44.9'	3121	72°50.0'	3100	106°35.2'	3067	20°54.4'	5644
3	39°24.5'	3075	64°14.1'	3122	73°19.4'	3101	106°05.5'	3068	20°38.1'	5774
4	39°54.1'	3076	64°43.3'	3123	73°48.8'	3102	105°35.9'	3069	20°22.2'	5914
5	40°23.6'	3077	65°12.6'	3124	74°18.2'	3102	105°06.3'	3070	20°06.8'	6063
6	40°53.2'	3078	65°41.8'	3125	74°47.5'	3103	104°36.7'	3070	19°52.0'	6223
7	41°22.7'	3079	66°11.0'	3126	75°16.9'	3104	104°07.2'	3071	19°37.6'	6396
8	41°52.3'	3080	66°40.2'	3126	75°46.3'	3104	103°37.6'	3072	19°23.9'	6582
9	42°21.8'	3080	67°09.5'	3127	76°15.6'	3105	103°08.0'	3073	19°10.7'	6784
10	42°51.3'	3081	67°38.7'	3128	76°45.0'	3106	102°38.4'	3074	18°58.1'	7002
11	43°20.8'	3082	68°07.9'	3129	77°14.3'	3106	102°08.9'	3074	18°46.2'	7239
12	43°50.3'	3083	68°37.0'	3129	77°43.7'	3107	101°39.3'	3075	18°34.8'	7498
13	44°19.8'	3083	69°06.2'	3130	78°13.0'	3107	101°09.7'	3076	18°24.1'	7781
14	44°49.3'	3084	69°35.4'	3131	78°42.4'	3108	100°40.2'	3076	18°14.1'	8092
15	45°18.8'	3085	70°04.6'	3131	79°11.7'	3108	100°10.6'	3077	18°04.8'	8436
16	45°48.3'	3085	70°33.8'	3132	79°41.0'	3109	99°41.1'	3077	17°56.2'	8820
17	46°17.8'	3086	71°02.9'	3132	80°10.4'	3109	99°11.6'	3078	17°48.4'	9249
18	46°47.3'	3086	71°32.1'	3133	80°39.7'	3109	98°42.0'	3078	17°41.2'	9737
19	47°16.8'	3087	72°01.3'	3133	81°09.0'	3110	98°12.5'	3079	17°34.9'	10296
20	47°46.2'	3087	72°30.4'	3134	81°38.3'	3110	97°43.0'	3079	17°29.2'	10949
21	48°15.7'	3087	72°59.6'	3134	82°07.6'	3110	97°13.4'	3079	17°24.4'	11730
22	48°45.2'	3088	73°28.8'	3134	82°37.0'	3110	96°43.9'	3080	-	-
23	49°14.7'	3088	73°57.9'	3135	83°06.3'	3111	96°14.4'	3080	-	-

Thu Oct 10, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Aldebaran		-Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	49°44.1'	3088	74°27.1'	3135	83°35.6'	3111	95°44.9'	3080	112°51.4'	3247
1	50°13.6'	3089	74°56.2'	3135	84°04.9'	3111	95°15.3'	3080	112°23.0'	3246
2	50°43.1'	3089	75°25.4'	3135	84°34.2'	3111	94°45.8'	3081	111°54.6'	3245
3	51°12.5'	3089	75°54.5'	3136	85°03.5'	3111	94°16.3'	3081	111°26.2'	3244
4	51°42.0'	3089	76°23.7'	3136	85°32.8'	3111	93°46.8'	3081	110°57.7'	3243
5	52°11.4'	3089	76°52.8'	3136	86°02.2'	3111	93°17.3'	3081	110°29.3'	3242
6	52°40.9'	3089	77°21.9'	3136	86°31.5'	3111	92°47.7'	3081	110°00.9'	3241
7	53°10.4'	3089	77°51.1'	3136	87°00.8'	3111	92°18.2'	3081	109°32.4'	3240
8	53°39.8'	3089	78°20.2'	3136	87°30.1'	3111	91°48.7'	3081	109°04.0'	3239
9	54°09.3'	3089	78°49.4'	3136	87°59.4'	3111	91°19.2'	3081	108°35.5'	3238
10	54°38.7'	3089	79°18.5'	3136	88°28.7'	3111	90°49.7'	3081	108°07.0'	3237
11	55°08.2'	3089	79°47.7'	3136	88°58.0'	3111	90°20.2'	3081	107°38.6'	3236
12	55°37.7'	3089	80°16.8'	3136	89°27.3'	3111	89°50.6'	3080	107°10.1'	3235
13	56°07.1'	3089	80°46.0'	3135	89°56.6'	3110	89°21.1'	3080	106°41.6'	3234
14	56°36.6'	3088	81°15.1'	3135	90°26.0'	3110	88°51.6'	3080	106°13.1'	3233
15	57°06.1'	3088	81°44.3'	3135	90°55.3'	3110	88°22.1'	3080	105°44.6'	3232
16	57°35.5'	3088	82°13.4'	3135	91°24.6'	3110	87°52.6'	3080	105°16.1'	3231
17	58°05.0'	3088	82°42.6'	3134	91°53.9'	3109	87°23.0'	3079	104°47.6'	3230
18	58°34.5'	3087	83°11.7'	3134	92°23.2'	3109	86°53.5'	3079	104°19.1'	3229
19	59°03.9'	3087	83°40.9'	3134	92°52.6'	3109	86°24.0'	3079	103°50.6'	3228
20	59°33.4'	3087	84°10.0'	3133	93°21.9'	3108	85°54.4'	3078	103°22.0'	3227
21	60°02.9'	3086	84°39.2'	3133	93°51.2'	3108	85°24.9'	3078	102°53.5'	3226
22	60°32.4'	3086	85°08.4'	3132	94°20.6'	3107	84°55.4'	3077	102°25.0'	3225
23	61°01.9'	3085	85°37.5'	3132	94°49.9'	3107	84°25.8'	3077	101°56.4'	3224

Fri Oct 11, 2019 UTC

UTC	+Saturn		-Aldebaran		+Jupiter		+Antares		-Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	61°31.3'	3085	83°56.3'	3076	86°06.7'	3131	95°19.2'	3107	101°27.8'	3223
1	62°00.8'	3084	83°26.7'	3076	86°35.9'	3131	95°48.6'	3106	100°59.3'	3222
2	62°30.3'	3084	82°57.2'	3075	87°05.1'	3130	96°17.9'	3106	100°30.7'	3221
3	62°59.8'	3083	82°27.6'	3075	87°34.2'	3130	96°47.3'	3105	100°02.1'	3220
4	63°29.3'	3083	81°58.1'	3074	88°03.4'	3129	97°16.6'	3104	99°33.5'	3219
5	63°58.8'	3082	81°28.5'	3073	88°32.6'	3129	97°46.0'	3104	99°05.0'	3218
6	64°28.3'	3081	80°58.9'	3073	89°01.8'	3128	98°15.3'	3103	98°36.4'	3217
7	64°57.8'	3081	80°29.4'	3072	89°31.0'	3127	98°44.7'	3103	98°07.7'	3216
8	65°27.4'	3080	79°59.8'	3071	90°00.2'	3126	99°14.1'	3102	97°39.1'	3215
9	65°56.9'	3079	79°30.2'	3071	90°29.4'	3126	99°43.5'	3101	97°10.5'	3214
10	66°26.4'	3078	79°00.6'	3070	90°58.6'	3125	100°12.8'	3101	96°41.9'	3213
11	66°55.9'	3078	78°31.0'	3069	91°27.9'	3124	100°42.2'	3100	96°13.3'	3212
12	67°25.5'	3077	78°01.4'	3068	91°57.1'	3123	101°11.6'	3099	95°44.6'	3210
13	67°55.0'	3076	77°31.8'	3067	92°26.3'	3122	101°41.0'	3099	95°16.0'	3209
14	68°24.6'	3075	77°02.2'	3066	92°55.5'	3122	102°10.4'	3098	94°47.3'	3208
15	68°54.1'	3074	76°32.6'	3066	93°24.8'	3121	102°39.8'	3097	94°18.6'	3207
16	69°23.7'	3073	76°03.0'	3065	93°54.0'	3120	103°09.2'	3096	93°50.0'	3206
17	69°53.3'	3072	75°33.4'	3064	94°23.3'	3119	103°38.6'	3095	93°21.3'	3205
18	70°22.8'	3071	75°03.7'	3063	94°52.5'	3118	104°08.0'	3095	92°52.6'	3204
19	70°52.4'	3070	74°34.1'	3062	95°21.8'	3117	104°37.5'	3094	92°23.9'	3203
20	71°22.0'	3069	74°04.4'	3061	95°51.1'	3116	105°06.9'	3093	91°55.2'	3202
21	71°51.6'	3068	73°34.8'	3060	96°20.4'	3115	105°36.3'	3092	91°26.5'	3201
22	72°21.2'	3067	73°05.1'	3059	96°49.7'	3114	106°05.8'	3091	90°57.8'	3200
23	72°50.8'	3066	72°35.5'	3058	97°18.9'	3113	106°35.2'	3090	90°29.1'	3198

Sat Oct 12, 2019 UTC

UTC	-Aldebaran		+Saturn		+Formalhaut		-Betelgeuse		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	72°05.8'	3057	73°20.4'	3065	28°01.8'	4128	90°00.4'	3197	97°48.2'	3112
1	71°36.1'	3056	73°50.1'	3064	28°25.0'	4092	89°31.6'	3196	98°17.6'	3110
2	71°06.4'	3054	74°19.7'	3063	28°48.4'	4058	89°02.9'	3195	98°46.9'	3109
3	70°36.7'	3053	74°49.3'	3062	29°12.0'	4026	88°34.1'	3194	99°16.2'	3108
4	70°07.0'	3052	75°19.0'	3061	29°35.7'	3995	88°05.4'	3193	99°45.5'	3107
5	69°37.3'	3051	75°48.6'	3059	29°59.6'	3966	87°36.6'	3192	100°14.9'	3106
6	69°07.6'	3050	76°18.3'	3058	30°23.7'	3937	87°07.8'	3191	100°44.2'	3105
7	68°37.9'	3049	76°48.0'	3057	30°47.9'	3910	86°39.1'	3190	101°13.6'	3103
8	68°08.1'	3047	77°17.6'	3056	31°12.3'	3884	86°10.3'	3189	101°42.9'	3102
9	67°38.4'	3046	77°47.3'	3054	31°36.9'	3860	85°41.5'	3188	102°12.3'	3101
10	67°08.6'	3045	78°17.0'	3053	32°01.5'	3836	85°12.7'	3186	102°41.7'	3099
11	66°38.9'	3043	78°46.7'	3052	32°26.3'	3813	84°43.9'	3185	103°11.1'	3098
12	66°09.1'	3042	79°16.5'	3050	32°51.3'	3791	84°15.1'	3184	103°40.5'	3097
13	65°39.3'	3041	79°46.2'	3049	33°16.3'	3769	83°46.2'	3183	104°09.9'	3095
14	65°09.5'	3039	80°15.9'	3048	33°41.5'	3749	83°17.4'	3182	104°39.3'	3094
15	64°39.7'	3038	80°45.7'	3046	34°06.8'	3729	82°48.6'	3181	105°08.7'	3093
16	64°09.9'	3037	81°15.4'	3045	34°32.3'	3710	82°19.7'	3180	105°38.2'	3091
17	63°40.1'	3035	81°45.2'	3043	34°57.8'	3692	81°50.9'	3179	106°07.6'	3090
18	63°10.3'	3034	82°14.9'	3042	35°23.4'	3675	81°22.0'	3178	106°37.1'	3088
19	62°40.4'	3033	82°44.7'	3040	35°49.2'	3658	80°53.2'	3177	107°06.5'	3087
20	62°10.6'	3031	83°14.5'	3039	36°15.0'	3641	80°24.3'	3176	107°36.0'	3085
21	61°40.7'	3030	83°44.3'	3038	36°41.0'	3625	79°55.4'	3175	108°05.5'	3084
22	61°10.9'	3028	84°14.1'	3036	37°07.0'	3610	79°26.5'	3174	108°35.0'	3082
23	60°41.0'	3027	84°44.0'	3034	37°33.1'	3595	78°57.6'	3173	109°04.5'	3081

Sun Oct 13, 2019 UTC

UTC	−Aldebaran		+Formalhaut		+Saturn		−Betelgeuse		−Capella	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	60°11.1′	3025	37°59.4′	3581	85°13.8′	3033	78°28.7′	3172	76°00.4′	3458
1	59°41.2′	3024	38°25.7′	3567	85°43.6′	3031	77°59.8′	3171	75°33.3′	3458
2	59°11.3′	3022	38°52.1′	3554	86°13.5′	3030	77°30.9′	3170	75°06.2′	3458
3	58°41.4′	3021	39°18.5′	3541	86°43.4′	3028	77°02.0′	3169	74°39.2′	3459
4	58°11.4′	3019	39°45.1′	3528	87°13.2′	3027	76°33.1′	3168	74°12.1′	3459
5	57°41.5′	3018	40°11.7′	3516	87°43.1′	3025	76°04.1′	3167	73°45.1′	3460
6	57°11.6′	3016	40°38.4′	3504	88°13.0′	3023	75°35.2′	3166	73°18.0′	3461
7	56°41.6′	3014	41°05.2′	3492	88°42.9′	3022	75°06.3′	3165	72°51.0′	3461
8	56°11.6′	3013	41°32.0′	3481	89°12.9′	3020	74°37.3′	3164	72°23.9′	3462
9	55°41.6′	3011	41°59.0′	3470	89°42.8′	3018	74°08.3′	3163	71°56.9′	3463
10	55°11.6′	3010	42°25.9′	3460	90°12.7′	3017	73°39.4′	3162	71°29.9′	3464
11	54°41.6′	3008	42°53.0′	3449	90°42.7′	3015	73°10.4′	3161	71°02.9′	3465
12	54°11.6′	3006	43°20.1′	3439	91°12.7′	3013	72°41.4′	3161	70°35.8′	3466
13	53°41.6′	3005	43°47.3′	3429	91°42.6′	3011	72°12.5′	3160	70°08.8′	3467
14	53°11.6′	3003	44°14.5′	3420	92°12.6′	3010	71°43.5′	3159	69°41.8′	3469
15	52°41.5′	3001	44°41.8′	3411	92°42.6′	3008	71°14.5′	3158	69°14.8′	3470
16	52°11.4′	3000	45°09.2′	3402	93°12.6′	3006	70°45.5′	3157	68°47.8′	3471
17	51°41.4′	2998	45°36.6′	3393	93°42.7′	3004	70°16.5′	3157	68°20.9′	3473
18	51°11.3′	2996	46°04.1′	3384	94°12.7′	3003	69°47.5′	3156	67°53.9′	3475
19	50°41.2′	2995	46°31.6′	3376	94°42.8′	3001	69°18.5′	3155	67°26.9′	3476
20	50°11.1′	2993	46°59.2′	3367	95°12.8′	2999	68°49.5′	3155	66°00.0′	3478
21	49°41.0′	2991	47°26.8′	3359	95°42.9′	2997	68°20.4′	3154	66°33.1′	3480
22	49°10.8′	2989	47°54.5′	3352	96°13.0′	2995	67°51.4′	3153	66°06.1′	3482
23	48°40.7′	2988	48°22.2′	3344	96°43.1′	2993	67°22.4′	3153	65°39.2′	3484

Mon Oct 14, 2019 UTC

UTC	−Aldebaran		+Formalhaut		−Betelgeuse		−Pollux		+Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	48°10.5′	2986	48°50.0′	3336	66°53.4′	3152	92°21.5′	2998	97°13.2′	2991
1	47°40.4′	2984	49°17.8′	3329	66°24.3′	3152	91°51.4′	2996	97°43.4′	2989
2	47°10.2′	2982	49°45.7′	3322	65°55.3′	3151	91°21.3′	2994	98°13.5′	2988
3	46°40.0′	2981	50°13.6′	3315	65°26.2′	3151	90°51.2′	2992	98°43.7′	2986
4	46°09.8′	2979	50°41.6′	3308	64°57.2′	3150	90°21.1′	2990	99°13.8′	2984
5	45°39.6′	2977	51°09.6′	3301	64°28.1′	3150	89°51.0′	2988	99°44.0′	2982
6	45°09.3′	2975	51°37.7′	3294	63°59.1′	3149	89°20.8′	2986	100°14.2′	2980
7	44°39.1′	2973	52°05.8′	3288	63°30.0′	3149	88°50.6′	2984	100°44.4′	2978
8	44°08.8′	2972	52°33.9′	3282	63°01.0′	3149	88°20.5′	2982	101°14.7′	2976
9	43°38.6′	2970	53°02.1′	3275	62°31.9′	3149	87°50.3′	2980	101°44.9′	2974
10	43°08.3′	2968	53°30.3′	3269	62°02.9′	3148	87°20.1′	2978	102°15.1′	2972
11	42°38.0′	2966	53°58.6′	3263	61°33.8′	3148	86°49.8′	2976	102°45.4′	2970
12	42°07.7′	2964	54°26.9′	3257	61°04.7′	3148	86°19.6′	2974	103°15.7′	2968
13	41°37.4′	2963	54°55.2′	3251	60°35.7′	3148	85°49.3′	2972	103°46.0′	2966
14	41°07.0′	2961	55°23.6′	3245	60°06.6′	3148	85°19.1′	2970	104°16.3′	2964
15	40°36.7′	2959	55°52.0′	3240	59°37.5′	3148	84°48.8′	2968	104°46.6′	2962
16	40°06.3′	2957	56°20.5′	3234	59°08.5′	3148	84°18.5′	2966	105°17.0′	2960
17	39°35.9′	2955	56°49.0′	3229	58°39.4′	3148	83°48.2′	2964	105°47.3′	2957
18	39°05.6′	2953	57°17.5′	3223	58°10.4′	3148	83°17.9′	2962	106°17.7′	2955
19	38°35.2′	2952	57°46.1′	3218	57°41.3′	3149	82°47.5′	2960	106°48.1′	2953
20	38°04.8′	2950	58°14.7′	3213	57°12.2′	3149	82°17.2′	2958	107°18.5′	2951
21	37°34.3′	2948	58°43.3′	3208	56°43.2′	3149	81°46.8′	2955	107°48.9′	2949
22	37°03.9′	2946	59°12.0′	3203	56°14.1′	3150	81°16.4′	2953	108°19.3′	2947
23	36°33.5′	2944	59°40.7′	3198	55°45.1′	3150	80°46.0′	2951	108°49.7′	2945

Tue Oct 15, 2019 UTC

UTC	−Aldebaran		−Betelgeuse		+Formalhaut		−Pollux		−Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	36°03.0′	2943	55°16.0′	3151	60°09.4′	3193	80°15.6′	2949	81°12.9′	3131
1	35°32.5′	2941	54°47.0′	3151	60°38.2′	3188	79°45.2′	2947	80°43.7′	3129
2	35°02.0′	2939	54°17.9′	3152	61°07.0′	3183	79°14.8′	2945	80°14.5′	3128
3	34°31.6′	2937	53°48.9′	3153	61°35.8′	3178	78°44.3′	2943	79°45.3′	3126
4	34°01.0′	2935	53°19.9′	3154	62°04.7′	3174	78°13.8′	2941	79°16.1′	3125
5	33°30.5′	2934	52°50.8′	3155	62°33.6′	3169	77°43.4′	2938	78°46.9′	3123
6	32°60.0′	2932	52°21.8′	3156	63°02.5′	3165	77°12.9′	2936	78°17.6′	3122
7	32°29.4′	2930	51°52.8′	3157	63°31.4′	3160	76°42.3′	2934	77°48.4′	3120
8	31°58.9′	2928	51°23.8′	3158	64°00.4′	3156	76°11.8′	2932	77°19.1′	3119
9	31°28.3′	2927	50°54.8′	3160	64°29.4′	3151	75°41.3′	2930	76°49.9′	3117
10	30°57.7′	2925	50°25.8′	3161	64°58.5′	3147	75°10.7′	2928	76°20.6′	3116
11	30°27.1′	2923	49°56.9′	3163	65°27.5′	3143	74°40.1′	2925	75°51.3′	3115
12	29°56.5′	2922	49°27.9′	3165	65°56.6′	3138	74°09.5′	2923	75°22.1′	3113
13	29°25.9′	2920	48°58.9′	3166	66°25.8′	3134	73°38.9′	2921	74°52.8′	3112
14	28°55.3′	2918	48°30.0′	3168	66°54.9′	3130	73°08.3′	2919	74°23.5′	3111
15	28°24.6′	2917	48°01.1′	3171	67°24.1′	3126	72°37.7′	2916	73°54.1′	3110
16	27°54.0′	2915	47°32.2′	3173	67°53.3′	3122	72°07.0′	2914	73°24.8′	3108
17	27°23.3′	2914	47°03.3′	3175	68°22.6′	3118	71°36.3′	2912	72°55.5′	3107
18	26°52.6′	2912	46°34.4′	3178	68°51.8′	3114	71°05.6′	2910	72°26.1′	3106
19	26°22.0′	2911	46°05.5′	3181	69°21.1′	3110	70°34.9′	2908	71°56.8′	3105
20	25°51.3′	2910	45°36.7′	3183	69°50.4′	3106	70°04.2′	2905	71°27.5′	3104
21	25°20.6′	2908	45°07.8′	3186	70°19.8′	3102	69°33.5′	2903	70°58.1′	3103
22	24°49.9′	2907	44°39.0′	3190	70°49.2′	3098	69°02.7′	2901	70°28.7′	3102
23	24°19.1′	2906	44°10.2′	3193	71°18.6′	3094	68°32.0′	2898	69°59.4′	3101

Wed Oct 16, 2019 UTC

UTC	−Aldebaran		−Betelgeuse		−Pollux		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	23°48.4′	2905	43°41.5′	3197	68°01.2′	2896	69°30.0′	3100	71°48.0′	3091
1	23°17.7′	2904	43°12.7′	3201	67°30.4′	2894	69°00.6′	3099	72°17.4′	3087
2	22°46.9′	2903	42°44.0′	3205	66°59.6′	2892	68°31.2′	3099	72°46.9′	3083
3	22°16.2′	2902	42°15.3′	3209	66°28.7′	2889	68°01.8′	3098	73°16.4′	3080
4	21°45.4′	2901	41°46.7′	3214	65°57.9′	2887	67°32.4′	3097	73°45.9′	3076
5	21°14.6′	2901	41°18.1′	3219	65°27.0′	2885	67°03.0′	3096	74°15.5′	3072
6	20°43.9′	2900	40°49.5′	3224	64°56.2′	2882	66°33.6′	3096	74°45.1′	3069
7	20°13.1′	2900	40°20.9′	3229	64°25.3′	2880	66°04.2′	3095	75°14.7′	3065
8	19°42.3′	2900	39°52.4′	3235	63°54.3′	2878	65°34.8′	3095	75°44.3′	3062
9	19°11.6′	2900	39°23.9′	3241	63°23.4′	2875	65°05.3′	3094	76°13.9′	3058
10	18°40.8′	2900	38°55.4′	3247	62°52.5′	2873	64°35.9′	3094	76°43.6′	3055
11	18°10.0′	2900	38°27.0′	3254	62°21.5′	2871	64°06.5′	3093	77°13.3′	3051
12	17°39.2′	2901	37°58.7′	3261	61°50.5′	2868	63°37.0′	3093	77°43.0′	3048
13	17°08.5′	2902	37°30.4′	3269	61°19.5′	2866	63°07.6′	3093	78°12.8′	3044
14	16°37.7′	2904	37°02.1′	3276	60°48.5′	2864	62°38.2′	3093	78°42.5′	3041
15	16°07.0′	2905	36°33.9′	3285	60°17.5′	2861	62°08.7′	3093	79°12.3′	3038
16	15°36.2′	2908	36°05.7′	3294	59°46.4′	2859	61°39.3′	3092	79°42.1′	3034
17	15°05.5′	2910	35°37.6′	3303	59°15.4′	2857	61°09.9′	3092	80°12.0′	3031
18	14°34.8′	2914	35°09.6′	3313	58°44.3′	2854	60°40.4′	3093	80°41.8′	3028
19	14°04.2′	2918	34°41.6′	3323	58°13.2′	2852	60°11.0′	3093	81°11.7′	3024
20	13°33.5′	2922	34°13.7′	3334	57°42.1′	2850	59°41.6′	3093	81°41.6′	3021
21	13°02.9′	2928	33°45.8′	3346	57°11.0′	2847	59°12.1′	3093	82°11.5′	3018
22	12°32.3′	2935	33°18.0′	3358	56°39.8′	2845	58°42.7′	3094	82°41.5′	3015
23	12°01.8′	2943	32°50.3′	3371	56°08.7′	2843	58°13.3′	3094	83°11.4′	3012

Thu Oct 17, 2019 UTC

UTC	−Aldebaran		−Pollux		−Betelgeuse		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	11°31.3′	2952	55°37.5′	2840	32°22.7′	3384	57°43.8′	3095	83°41.4′	3008
1	11°00.9′	2964	55°06.3′	2838	31°55.2′	3399	57°14.4′	3095	84°11.5′	3005
2	10°30.6′	2977	54°35.1′	2836	31°27.8′	3414	56°45.0′	3096	84°41.5′	3002
3	10°00.4′	2993	54°03.8′	2833	31°00.4′	3430	56°15.6′	3097	85°11.5′	2999
4	9°30.2′	3013	53°32.6′	2831	30°33.2′	3447	55°46.2′	3098	85°41.6′	2996
5	9°00.3′	3037	53°01.3′	2828	30°06.1′	3466	55°16.8′	3099	86°11.7′	2993
6	8°30.4′	3065	52°30.0′	2826	29°39.1′	3485	54°47.4′	3100	86°41.8′	2990
7	8°00.8′	3101	51°58.7′	2824	29°12.2′	3505	54°18.0′	3101	87°12.0′	2987
8	7°31.4′	3144	51°27.4′	2821	28°45.4′	3527	53°48.6′	3103	87°42.1′	2984
9	7°02.4′	3199	50°56.1′	2819	28°18.8′	3550	53°19.2′	3104	88°12.3′	2981
10	6°33.6′	3268	50°24.7′	2817	27°52.3′	3574	52°49.9′	3106	88°42.5′	2978
11	6°05.4′	3358	49°53.4′	2814	27°25.9′	3600	52°20.5′	3108	89°12.8′	2975
12	5°37.7′	3475	49°22.0′	2812	26°59.7′	3628	51°51.2′	3109	89°43.0′	2972
13	–	–	48°50.6′	2810	26°33.7′	3657	51°21.9′	3111	90°13.3′	2969
14	–	–	48°19.1′	2807	26°07.9′	3689	50°52.6′	3114	90°43.6′	2966
15	–	–	47°47.7′	2805	25°42.2′	3722	50°23.3′	3116	91°13.9′	2963
16	–	–	47°16.3′	2803	25°16.7′	3757	49°54.0′	3119	91°44.2′	2960
17	–	–	46°44.8′	2800	24°51.5′	3795	49°24.7′	3121	92°14.5′	2957
18	–	–	46°13.3′	2798	24°26.4′	3836	48°55.5′	3124	92°44.9′	2955
19	–	–	45°41.8′	2796	24°01.6′	3879	48°26.3′	3127	93°15.3′	2952
20	–	–	45°10.3′	2793	23°37.1′	3925	47°57.1′	3131	93°45.7′	2949
21	–	–	44°38.7′	2791	23°12.8′	3975	47°27.9′	3134	94°16.1′	2946
22	–	–	44°07.2′	2789	22°48.7′	4028	46°58.7′	3138	94°46.6′	2943
23	–	–	43°35.6′	2787	22°25.0′	4085	46°29.6′	3142	95°17.0′	2941

Fri Oct 18, 2019 UTC

UTC	−Pollux		−Procyon		−Regulus		+Formalhaut		−Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	43°04.0′	2785	46°00.5′	3146	78°47.3′	2747	95°47.5′	2938	22°01.6′	4146
1	42°32.4′	2782	45°31.4′	3150	78°15.4′	2744	96°18.0′	2935	21°38.5′	4211
2	42°00.8′	2780	45°02.3′	3155	77°43.5′	2740	96°48.6′	2932	21°15.7′	4282
3	41°29.2′	2778	44°33.3′	3160	77°11.6′	2737	97°19.1′	2930	20°53.3′	4358
4	40°57.5′	2776	44°04.3′	3165	76°39.6′	2734	97°49.7′	2927	20°31.4′	4440
5	40°25.9′	2774	43°35.4′	3171	76°07.7′	2731	98°20.2′	2925	20°09.8′	4529
6	39°54.2′	2772	43°06.5′	3176	75°35.7′	2728	98°50.8′	2922	19°48.6′	4625
7	39°22.5′	2770	42°37.6′	3183	75°03.7′	2725	99°21.5′	2919	19°27.9′	4728
8	38°50.8′	2768	42°08.8′	3189	74°31.6′	2722	99°52.1′	2917	19°07.7′	4841
9	38°19.1′	2766	41°40.0′	3196	73°59.6′	2718	100°22.7′	2914	18°48.1′	4963
10	37°47.3′	2764	41°11.2′	3203	73°27.5′	2715	100°53.4′	2912	18°28.9′	5096
11	37°15.6′	2762	40°42.5′	3211	72°55.4′	2712	101°24.1′	2909	18°10.4′	5241
12	36°43.8′	2760	40°13.9′	3219	72°23.2′	2709	101°54.8′	2907	17°52.4′	5399
13	36°12.1′	2759	39°45.3′	3228	71°51.1′	2706	102°25.5′	2904	17°35.1′	5572
14	35°40.3′	2757	39°16.8′	3237	71°18.9′	2702	102°56.3′	2902	17°18.5′	5762
15	35°08.5′	2755	38°48.3′	3246	70°46.7′	2699	103°27.0′	2899	17°02.5′	5971
16	34°36.6′	2754	38°19.9′	3256	70°14.5′	2696	103°57.8′	2897	16°47.4′	6201
17	34°04.8′	2752	37°51.5′	3267	69°42.2′	2692	104°28.6′	2895	–	–
18	33°33.0′	2751	37°23.3′	3278	69°09.9′	2689	104°59.4′	2892	–	–
19	33°01.1′	2749	36°55.1′	3290	68°37.6′	2686	105°30.2′	2890	–	–
20	32°29.3′	2748	36°26.9′	3303	68°05.3′	2682	106°01.1′	2888	–	–
21	31°57.4′	2747	35°58.9′	3316	67°33.0′	2679	106°31.9′	2885	–	–
22	31°25.5′	2746	35°30.9′	3330	67°00.6′	2676	107°02.8′	2883	–	–
23	30°53.6′	2745	35°03.0′	3344	66°28.2′	2672	107°33.7′	2881	–	–

Sat Oct 19, 2019 UTC

UTC	+Aldebaran		-Pollux		-Regulus		-Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	14°38.7'	2741	30°21.8'	2744	65°55.7'	2669	34°35.3'	3360	108°04.6'	2879
1	15°10.6'	2732	29°49.9'	2743	65°23.3'	2665	34°07.6'	3376	108°35.5'	2877
2	15°42.6'	2724	29°18.0'	2743	64°50.8'	2662	33°40.0'	3394	109°06.5'	2875
3	16°14.6'	2716	28°46.1'	2743	64°18.3'	2659	33°12.6'	3412	109°37.4'	2873
4	16°46.7'	2708	28°14.1'	2742	63°45.8'	2655	32°45.2'	3432	110°08.4'	2871
5	17°18.9'	2701	27°42.2'	2742	63°13.2'	2652	32°18.0'	3452	110°39.4'	2869
6	17°51.1'	2694	27°10.3'	2742	62°40.6'	2648	31°50.9'	3474	111°10.4'	2867
7	18°23.4'	2687	26°38.4'	2743	62°08.0'	2645	31°23.9'	3497	111°41.4'	2865
8	18°55.7'	2681	26°06.5'	2744	61°35.4'	2641	30°57.1'	3521	112°12.4'	2863
9	19°28.0'	2675	25°34.6'	2744	61°02.7'	2638	30°30.4'	3547	112°43.4'	2861
10	20°00.4'	2669	25°02.7'	2746	60°30.0'	2634	30°03.9'	3575	113°14.5'	2860
11	20°32.9'	2663	24°30.8'	2747	59°57.3'	2630	29°37.6'	3604	113°45.5'	2858
12	21°05.4'	2657	23°59.0'	2749	59°24.6'	2627	29°11.4'	3634	114°16.6'	2856
13	21°37.9'	2652	23°27.1'	2751	58°51.8'	2623	28°45.4'	3667	114°47.7'	2855
14	22°10.5'	2646	22°55.3'	2754	58°19.0'	2620	28°19.6'	3702	115°18.8'	2853
15	22°43.2'	2641	22°23.4'	2757	57°46.2'	2616	27°54.0'	3739	115°49.9'	2852
16	23°15.8'	2635	21°51.6'	2761	57°13.3'	2612	27°28.7'	3778	116°21.0'	2850
17	23°48.5'	2630	21°19.9'	2765	56°40.5'	2609	27°03.5'	3820	116°52.1'	2849
18	24°21.3'	2625	20°48.1'	2770	56°07.6'	2605	26°38.6'	3865	117°23.3'	2848
19	24°54.0'	2620	20°16.4'	2775	55°34.6'	2602	26°14.0'	3912	117°54.4'	2847
20	25°26.9'	2615	19°44.7'	2782	55°01.7'	2598	25°49.6'	3963	118°25.6'	2845
21	25°59.7'	2610	19°13.1'	2789	54°28.7'	2594	25°25.5'	4017	118°56.7'	2844
22	26°32.6'	2605	18°41.5'	2797	53°55.7'	2591	25°01.7'	4075	119°27.9'	2843
23	27°05.6'	2601	18°10.0'	2806	53°22.6'	2587	24°38.3'	4136	119°59.1'	2842

Sun Oct 20, 2019 UTC

UTC	-Sun		+Aldebaran		-Pollux		-Regulus		-Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	109°01.2'	2928	27°38.5'	2596	17°38.6'	2817	52°49.5'	2583	24°15.1'	4203
1	108°30.6'	2924	28°11.5'	2591	17°07.2'	2829	52°16.4'	2579	23°52.3'	4273
2	108°00.0'	2920	28°44.6'	2586	16°36.0'	2843	51°43.3'	2576	23°29.9'	4349
3	107°29.4'	2915	29°17.6'	2582	16°04.8'	2858	51°10.2'	2572	23°07.8'	4431
4	106°58.7'	2911	29°50.8'	2577	15°33.7'	2876	50°37.0'	2568	22°46.2'	4518
5	106°28.1'	2907	30°23.9'	2572	15°02.8'	2896	50°03.8'	2565	22°25.0'	4612
6	105°57.3'	2902	30°57.1'	2568	14°32.0'	2919	49°30.5'	2561	22°04.3'	4713
7	105°26.6'	2898	31°30.3'	2563	14°01.3'	2945	48°57.2'	2557	21°44.0'	4822
8	104°55.8'	2894	32°03.6'	2559	13°30.9'	2974	48°23.9'	2553	21°24.2'	4940
9	104°25.0'	2889	32°36.8'	2554	13°00.6'	3009	47°50.6'	2550	21°05.0'	5067
10	103°54.1'	2885	33°10.2'	2550	12°30.6'	3048	47°17.3'	2546	20°46.3'	5205
11	103°23.2'	2880	33°43.5'	2545	12°00.9'	3094	46°43.9'	2542	20°28.2'	5354
12	102°52.3'	2876	34°16.9'	2540	11°31.4'	3147	46°10.5'	2538	20°10.7'	5516
13	102°21.4'	2871	34°50.3'	2536	11°02.4'	3209	45°37.0'	2535	19°53.9'	5693
14	101°50.4'	2867	35°23.8'	2531	10°33.7'	3281	45°03.5'	2531	19°37.7'	5885
15	101°19.4'	2863	35°57.3'	2527	10°05.5'	3367	44°30.0'	2527	19°22.2'	6096
16	100°48.4'	2858	36°30.8'	2523	9°37.9'	3468	43°56.5'	2523	19°07.5'	6327
17	100°17.3'	2854	37°04.4'	2518	9°10.9'	3589	43°22.9'	2519	18°53.5'	6582
18	99°46.2'	2849	37°38.0'	2514	-	-	42°49.4'	2516	-	-
19	99°15.1'	2845	38°11.6'	2509	-	-	42°15.7'	2512	-	-
20	98°43.9'	2840	38°45.3'	2505	-	-	41°42.1'	2508	-	-
21	98°12.7'	2836	39°19.0'	2500	-	-	41°08.4'	2504	-	-
22	97°41.5'	2831	39°52.8'	2496	-	-	40°34.7'	2501	-	-
23	97°10.2'	2827	40°26.5'	2491	-	-	40°01.0'	2497	-	-

Mon Oct 21, 2019 UTC

UTC	-Sun		-Regulus		+Aldebaran		+Betelgeuse		-Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	96°38.9'	2822	39°27.2'	2493	41°00.3'	2487	27°10.9'	3284	80°12.4'	2700
1	96°07.6'	2817	38°53.4'	2489	41°34.2'	2482	27°39.1'	3250	79°40.2'	2695
2	95°36.2'	2813	38°19.6'	2486	42°08.1'	2478	28°07.5'	3217	79°07.9'	2691
3	95°04.8'	2808	37°45.7'	2482	42°42.0'	2474	28°36.1'	3186	78°35.6'	2687
4	94°33.4'	2804	37°11.9'	2478	43°15.9'	2469	29°04.9'	3156	78°03.3'	2682
5	94°01.9'	2799	36°37.9'	2475	43°49.9'	2465	29°33.9'	3128	77°31.0'	2678
6	93°30.4'	2795	36°04.0'	2471	44°23.9'	2460	30°03.1'	3101	76°58.6'	2673
7	92°58.9'	2790	35°30.0'	2467	44°58.0'	2456	30°32.5'	3075	76°26.2'	2669
8	92°27.3'	2785	34°56.0'	2464	45°32.0'	2451	31°02.0'	3050	75°53.7'	2665
9	91°55.8'	2781	34°22.0'	2460	46°06.2'	2447	31°31.7'	3026	75°21.2'	2660
10	91°24.1'	2776	33°48.0'	2457	46°40.3'	2442	32°01.6'	3004	74°48.7'	2656
11	90°52.5'	2772	33°13.9'	2453	47°14.5'	2438	32°31.7'	2982	74°16.2'	2652
12	90°20.8'	2767	32°39.8'	2450	47°48.7'	2434	33°01.9'	2961	73°43.6'	2647
13	89°49.0'	2763	32°05.7'	2446	48°23.0'	2429	33°32.2'	2940	73°11.0'	2643
14	89°17.3'	2758	31°31.5'	2443	48°57.3'	2425	34°02.7'	2921	72°38.3'	2638
15	88°45.5'	2753	30°57.3'	2440	49°31.6'	2420	34°33.3'	2902	72°05.6'	2634
16	88°13.7'	2749	30°23.1'	2436	50°06.0'	2416	35°04.1'	2884	71°32.9'	2630
17	87°41.8'	2744	29°48.9'	2433	50°40.4'	2411	35°35.0'	2867	71°00.2'	2625
18	87°09.9'	2740	29°14.6'	2430	51°14.8'	2407	36°06.0'	2850	70°27.4'	2621
19	86°38.0'	2735	28°40.3'	2427	51°49.3'	2403	36°37.1'	2833	69°54.6'	2616
20	86°06.0'	2730	28°06.0'	2424	52°23.8'	2398	37°08.4'	2818	69°21.7'	2612
21	85°34.0'	2726	27°31.7'	2421	52°58.3'	2394	37°39.7'	2802	68°48.8'	2608
22	85°02.0'	2721	26°57.3'	2418	53°32.9'	2389	38°11.2'	2787	68°15.9'	2603
23	84°29.9'	2717	26°22.9'	2415	54°07.5'	2385	38°42.8'	2773	67°43.0'	2599

Tue Oct 22, 2019 UTC

UTC	-Sun		-Regulus		+Pollux		+Aldebaran		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	83°57.8'	2712	25°48.5'	2413	11°47.3'	2910	54°42.2'	2381	39°14.5'	2759
1	83°25.7'	2707	25°14.1'	2410	12°18.0'	2858	55°16.9'	2376	39°46.2'	2746
2	82°53.5'	2703	24°39.6'	2408	12°49.1'	2812	55°51.6'	2372	40°18.1'	2732
3	82°21.3'	2698	24°05.2'	2405	13°20.5'	2771	56°26.3'	2368	40°50.1'	2720
4	81°49.1'	2694	23°30.7'	2403	13°52.2'	2734	57°01.1'	2363	41°22.2'	2707
5	81°16.8'	2689	22°56.2'	2401	14°24.2'	2701	57°35.9'	2359	41°54.4'	2695
6	80°44.5'	2685	22°21.7'	2400	14°56.4'	2671	58°10.8'	2354	42°26.6'	2683
7	80°12.2'	2680	21°47.1'	2398	15°28.8'	2644	58°45.7'	2350	42°59.0'	2672
8	79°39.8'	2676	21°12.6'	2397	16°01.5'	2619	59°20.6'	2346	43°31.4'	2660
9	79°07.4'	2671	20°38.1'	2396	16°34.3'	2596	59°55.6'	2341	44°03.9'	2649
10	78°35.0'	2667	20°03.5'	2395	17°07.3'	2575	60°30.6'	2337	44°36.5'	2639
11	78°02.5'	2662	19°28.9'	2395	17°40.5'	2556	61°05.6'	2333	45°09.2'	2628
12	77°30.0'	2658	18°54.4'	2395	18°13.8'	2538	61°40.6'	2329	45°41.9'	2618
13	76°57.4'	2653	18°19.8'	2395	18°47.2'	2521	62°15.7'	2324	46°14.8'	2608
14	76°24.9'	2649	17°45.2'	2396	19°20.8'	2505	62°50.9'	2320	46°47.7'	2598
15	75°52.3'	2644	17°10.7'	2398	19°54.5'	2490	63°26.0'	2316	47°20.7'	2589
16	75°19.6'	2640	16°36.1'	2400	20°28.3'	2476	64°01.3'	2311	47°53.7'	2580
17	74°47.0'	2635	16°01.6'	2403	21°02.2'	2463	64°36.5'	2307	48°26.9'	2570
18	74°14.2'	2631	15°27.1'	2406	21°36.3'	2451	65°11.8'	2303	49°00.1'	2562
19	73°41.5'	2627	14°52.6'	2411	22°10.4'	2439	65°47.1'	2299	49°33.3'	2553
20	73°08.7'	2622	14°18.2'	2417	22°44.6'	2428	66°22.4'	2295	50°06.7'	2544
21	72°35.9'	2618	13°43.8'	2424	23°18.9'	2417	66°57.8'	2290	50°40.1'	2536
22	72°03.1'	2614	13°09.5'	2433	23°53.3'	2407	67°33.2'	2286	51°13.5'	2528
23	71°30.2'	2609	12°35.2'	2444	24°27.8'	2397	68°08.6'	2282	51°47.0'	2519

Wed Oct 23, 2019 UTC

UTC	−Sun		−Regulus		+Pollux		+Aldebaran		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	70°57.3′	2605	12°01.0′	2457	25°02.3′	2388	68°44.1′	2278	52°20.6′	2512
1	70°24.4′	2601	11°26.9′	2473	25°36.9′	2379	69°19.6′	2274	52°54.3′	2504
2	69°51.4′	2596	10°53.0′	2492	26°11.6′	2371	69°55.2′	2270	53°28.0′	2496
3	69°18.4′	2592	10°19.2′	2515	26°46.4′	2362	70°30.7′	2266	54°01.8′	2489
4	68°45.4′	2588	9°45.6′	2544	27°21.2′	2354	71°06.3′	2262	54°35.6′	2481
5	68°12.3′	2584	9°12.2′	2580	27°56.1′	2346	71°42.0′	2258	55°09.5′	2474
6	67°39.2′	2580	8°39.0′	2624	28°31.1′	2339	72°17.7′	2254	55°43.4′	2467
7	67°06.1′	2576	8°06.2′	2679	29°06.1′	2332	72°53.4′	2250	56°17.4′	2460
8	66°32.9′	2572	7°33.9′	2750	29°41.1′	2325	73°29.1′	2246	56°51.5′	2453
9	65°59.8′	2568	7°02.0′	2840	30°16.3′	2318	74°04.9′	2242	57°25.6′	2447
10	65°26.5′	2564	–	–	30°51.5′	2311	74°40.7′	2238	57°59.7′	2440
11	64°53.3′	2560	–	–	31°26.7′	2304	75°16.5′	2234	58°34.0′	2433
12	64°20.0′	2556	–	–	32°02.0′	2298	75°52.4′	2230	59°08.2′	2427
13	63°46.7′	2552	–	–	32°37.3′	2292	76°28.3′	2226	59°42.5′	2421
14	63°13.4′	2548	–	–	33°12.7′	2286	77°04.2′	2223	60°16.9′	2415
15	62°40.0′	2544	–	–	33°48.2′	2280	77°40.2′	2219	60°51.3′	2409
16	62°06.6′	2540	–	–	34°23.7′	2274	78°16.2′	2215	61°25.8′	2403
17	61°33.2′	2536	–	–	34°59.2′	2269	78°52.2′	2211	62°00.3′	2397
18	60°59.7′	2533	–	–	35°34.8′	2263	79°28.3′	2208	62°34.8′	2391
19	60°26.2′	2529	–	–	36°10.4′	2258	80°04.4′	2204	63°09.4′	2386
20	59°52.7′	2525	–	–	36°46.1′	2253	80°40.5′	2200	63°44.0′	2380
21	59°19.1′	2522	–	–	37°21.8′	2247	81°16.7′	2197	64°18.7′	2375
22	58°45.6′	2518	–	–	37°57.6′	2242	81°52.8′	2193	64°53.5′	2369
23	58°12.0′	2515	–	–	38°33.4′	2238	82°29.0′	2190	65°28.2′	2364

Thu Oct 24, 2019 UTC

UTC	−Sun		+Pollux		−Mars		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	57°38.3′	2511	39°09.2′	2233	40°09.5′	2408	41°23.9′	2662	66°03.1′	2359
1	57°04.7′	2508	39°45.1′	2228	39°35.1′	2405	41°56.4′	2647	66°37.9′	2354
2	56°31.0′	2504	40°21.0′	2223	39°00.6′	2402	42°29.0′	2633	67°12.8′	2349
3	55°57.3′	2501	40°57.0′	2219	38°26.1′	2400	43°01.8′	2620	67°47.7′	2344
4	55°23.6′	2498	41°33.0′	2214	37°51.5′	2397	43°34.6′	2606	68°22.7′	2339
5	54°49.8′	2494	42°09.0′	2210	37°17.0′	2394	44°07.5′	2594	68°57.7′	2335
6	54°16.0′	2491	42°45.1′	2206	36°42.4′	2392	44°40.5′	2581	69°32.8′	2330
7	53°42.2′	2488	43°21.2′	2201	36°07.8′	2390	45°13.6′	2569	70°07.9′	2325
8	53°08.4′	2485	43°57.3′	2197	35°33.2′	2387	45°46.8′	2558	70°43.0′	2321
9	52°34.5′	2482	44°33.5′	2193	34°58.6′	2385	46°20.1′	2546	71°18.1′	2317
10	52°00.6′	2479	45°09.7′	2189	34°23.9′	2383	46°53.5′	2536	71°53.3′	2313
11	51°26.7′	2476	45°46.0′	2185	33°49.3′	2381	47°27.0′	2525	72°28.6′	2308
12	50°52.8′	2473	46°22.3′	2182	33°14.6′	2379	48°00.5′	2515	73°03.8′	2304
13	50°18.9′	2471	46°58.6′	2178	32°39.9′	2377	48°34.2′	2505	73°39.1′	2300
14	49°44.9′	2468	47°34.9′	2174	32°05.2′	2375	49°07.9′	2495	74°14.5′	2297
15	49°10.9′	2465	48°11.3′	2171	31°30.5′	2374	49°41.6′	2486	74°49.8′	2293
16	48°36.9′	2463	48°47.7′	2167	30°55.7′	2372	50°15.5′	2477	75°25.2′	2289
17	48°02.9′	2460	49°24.1′	2164	30°21.0′	2371	50°49.4′	2468	76°00.6′	2285
18	47°28.8′	2458	50°00.6′	2160	29°46.2′	2370	51°23.4′	2460	76°36.1′	2282
19	46°54.7′	2455	50°37.0′	2157	29°11.5′	2369	51°57.4′	2452	77°11.5′	2279
20	46°20.6′	2453	51°13.6′	2154	28°36.7′	2368	52°31.6′	2444	77°47.1′	2275
21	45°46.5′	2451	51°50.1′	2151	28°01.9′	2367	53°05.7′	2436	78°22.6′	2272
22	45°12.4′	2449	52°26.7′	2148	27°27.1′	2367	53°40.0′	2428	78°58.1′	2269
23	44°38.3′	2447	53°03.3′	2145	26°52.3′	2367	54°14.3′	2421	79°33.7′	2266

Fri Oct 25, 2019 UTC

UTC	−Sun		+Regulus		−Mars		+Pollux		+Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	44°04.1′	2445	17°46.2′	2187	26°17.5′	2366	53°39.9′	2142	54°48.6′	2414
1	43°29.9′	2443	18°22.4′	2180	25°42.7′	2367	54°16.5′	2139	55°23.1′	2407
2	42°55.8′	2441	18°58.7′	2173	25°07.9′	2367	54°53.2′	2136	55°57.5′	2401
3	42°21.5′	2439	19°35.1′	2167	24°33.1′	2368	55°29.9′	2133	56°32.1′	2394
4	41°47.3′	2437	20°11.5′	2161	23°58.4′	2369	56°06.6′	2131	57°06.6′	2388
5	41°13.1′	2436	20°48.0′	2156	23°23.6′	2370	56°43.3′	2128	57°41.2′	2382
6	40°38.9′	2434	21°24.5′	2151	22°48.8′	2372	57°20.1′	2126	58°15.9′	2376
7	40°04.6′	2433	22°01.1′	2146	22°14.1′	2374	57°56.9′	2123	58°50.6′	2370
8	39°30.3′	2432	22°37.7′	2141	21°39.3′	2376	58°33.7′	2121	59°25.4′	2365
9	38°56.1′	2431	23°14.4′	2137	21°04.6′	2379	59°10.5′	2118	60°00.2′	2360
10	38°21.8′	2430	23°51.0′	2133	20°29.9′	2382	59°47.3′	2116	60°35.0′	2355
11	37°47.5′	2429	24°27.8′	2129	19°55.2′	2386	60°24.2′	2114	61°09.9′	2350
12	37°13.2′	2428	25°04.5′	2125	19°20.6′	2391	61°01.1′	2112	61°44.9′	2345
13	36°38.9′	2427	25°41.3′	2122	18°46.0′	2396	61°37.9′	2110	62°19.8′	2340
14	36°04.6′	2426	26°18.1′	2119	18°11.4′	2402	62°14.9′	2108	62°54.8′	2336
15	35°30.3′	2426	26°54.9′	2116	17°36.9′	2408	62°51.8′	2106	63°29.9′	2332
16	34°55.9′	2426	27°31.8′	2113	17°02.5′	2416	63°28.7′	2105	64°04.9′	2328
17	34°21.6′	2425	28°08.7′	2110	16°28.1′	2425	64°05.7′	2103	64°40.1′	2324
18	33°47.3′	2425	28°45.6′	2107	15°53.8′	2435	64°42.7′	2101	65°15.2′	2320
19	33°13.0′	2425	29°22.5′	2105	15°19.5′	2447	65°19.6′	2100	65°50.4′	2316
20	32°38.6′	2426	29°59.5′	2103	14°45.3′	2460	65°56.6′	2098	66°25.6′	2313
21	32°04.3′	2426	30°36.5′	2100	14°11.3′	2475	66°33.7′	2097	67°00.8′	2309
22	31°30.0′	2427	31°13.4′	2098	13°37.4′	2493	67°10.7′	2095	67°36.0′	2306
23	30°55.7′	2427	31°50.5′	2096	13°03.6′	2513	67°47.7′	2094	68°11.3′	2303

Sat Oct 26, 2019 UTC

UTC	+Regulus		−Mars		+Pollux		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	32°27.5′	2094	12°29.9′	2536	68°24.8′	2093	68°46.6′	2300	94°29.6′	2219
1	33°04.5′	2093	11°56.5′	2563	69°01.8′	2092	69°22.0′	2297	95°05.6′	2218
2	33°41.6′	2091	11°23.2′	2595	69°38.9′	2091	69°57.3′	2295	95°41.6′	2218
3	34°18.7′	2090	10°50.2′	2633	70°15.9′	2090	70°32.7′	2292	96°17.6′	2218
4	34°55.7′	2088	10°17.5′	2677	70°53.0′	2089	71°08.1′	2290	96°53.6′	2217
5	35°32.8′	2087	9°45.1′	2730	71°30.1′	2088	71°43.5′	2288	97°29.6′	2217
6	36°09.9′	2086	9°13.1′	2794	72°07.2′	2088	72°18.9′	2286	98°05.6′	2217
7	36°47.1′	2085	8°41.6′	2872	72°44.3′	2087	72°54.4′	2284	98°41.7′	2217
8	37°24.2′	2084	8°10.6′	2967	73°21.4′	2086	73°29.8′	2282	99°17.7′	2217
9	38°01.3′	2083	–	–	73°58.5′	2086	74°05.3′	2280	99°53.7′	2217
10	38°38.5′	2082	–	–	74°35.7′	2085	74°40.8′	2279	100°29.7′	2218
11	39°15.6′	2081	–	–	75°12.8′	2085	75°16.3′	2277	101°05.7′	2218
12	39°52.8′	2081	–	–	75°49.9′	2085	75°51.8′	2276	101°41.7′	2219
13	40°29.9′	2080	–	–	76°27.0′	2085	76°27.3′	2275	102°17.7′	2220
14	41°07.1′	2080	–	–	77°04.2′	2084	77°02.9′	2274	102°53.7′	2220
15	41°44.3′	2079	–	–	77°41.3′	2084	77°38.4′	2273	103°29.7′	2221
16	42°21.4′	2079	–	–	78°18.4′	2085	78°14.0′	2272	104°05.6′	2222
17	42°58.6′	2079	–	–	78°55.5′	2085	78°49.5′	2271	104°41.6′	2223
18	43°35.8′	2079	–	–	79°32.7′	2085	79°25.1′	2271	105°17.6′	2225
19	44°13.0′	2079	–	–	80°09.8′	2085	80°00.7′	2271	105°53.5′	2226
20	44°50.1′	2079	–	–	80°46.9′	2086	80°36.2′	2270	106°29.5′	2228
21	45°27.3′	2079	–	–	81°24.0′	2086	81°11.8′	2270	107°05.4′	2229
22	46°04.5′	2080	–	–	82°01.1′	2086	81°47.4′	2270	107°41.3′	2231
23	46°41.6′	2080	–	–	82°38.3′	2087	82°23.0′	2270	108°17.2′	2233

Sun Oct 27, 2019 UTC

UTC	+Regulus		+Pollux		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	47°18.8'	2081	83°15.4'	2088	82°58.5'	2270	108°53.1'	2235
1	47°56.0'	2081	83°52.5'	2089	83°34.1'	2271	109°28.9'	2237
2	48°33.1'	2082	84°29.6'	2089	84°09.7'	2271	110°04.8'	2239
3	49°10.3'	2082	85°06.6'	2090	84°45.2'	2272	110°40.6'	2242
4	49°47.4'	2083	85°43.7'	2091	85°20.8'	2272	111°16.4'	2244
5	50°24.6'	2084	86°20.8'	2092	85°56.4'	2273	111°52.2'	2247
6	51°01.7'	2085	86°57.9'	2094	86°31.9'	2274	112°28.0'	2249
7	51°38.8'	2086	87°34.9'	2095	87°07.5'	2275	113°03.7'	2252
8	52°15.9'	2087	88°11.9'	2096	87°43.0'	2276	113°39.4'	2255
9	52°53.0'	2089	88°49.0'	2097	88°18.5'	2278	114°15.1'	2259
10	53°30.1'	2090	89°26.0'	2099	88°54.0'	2279	114°50.8'	2262
11	54°07.2'	2091	90°03.0'	2100	89°29.5'	2281	115°26.4'	2265
12	54°44.3'	2093	90°40.0'	2102	90°05.0'	2282	116°02.1'	2269
13	55°21.3'	2094	91°17.0'	2104	90°40.5'	2284	116°37.6'	2273
14	55°58.4'	2096	91°53.9'	2106	91°15.9'	2286	117°13.2'	2277
15	56°35.4'	2098	92°30.9'	2107	91°51.4'	2288	117°48.7'	2281
16	57°12.4'	2099	93°07.8'	2109	92°26.8'	2290	118°24.2'	2285
17	57°49.4'	2101	93°44.7'	2111	93°02.2'	2292	118°59.7'	2289
18	58°26.4'	2103	94°21.6'	2113	93°37.6'	2295	119°35.1'	2294
19	59°03.4'	2105	94°58.5'	2116	94°13.0'	2297	120°10.5'	2299
20	59°40.3'	2107	95°35.4'	2118	94°48.4'	2300	120°45.8'	2303
21	60°17.3'	2109	96°12.2'	2120	95°23.7'	2302	121°21.1'	2308
22	60°54.2'	2112	96°49.0'	2123	95°59.0'	2305	121°56.4'	2314
23	61°31.1'	2114	97°25.8'	2125	96°34.3'	2308	122°31.6'	2319

Tue Oct 29, 2019 UTC

UTC	-Jupiter		-Antares		-Saturn		-Venus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	36°06.1'	2246	24°42.7'	2391	58°27.4'	2206	9°22.0'	2980
1	35°30.3'	2251	24°08.1'	2405	57°51.3'	2210	8°51.8'	3037
2	34°54.6'	2255	23°33.6'	2420	57°15.2'	2214	8°22.0'	3106
3	34°18.9'	2259	22°59.2'	2436	56°39.2'	2219	7°52.6'	3188
4	33°43.2'	2264	22°25.0'	2452	56°03.2'	2223	7°23.8'	3289
5	33°07.6'	2268	21°50.9'	2470	55°27.2'	2227	6°55.7'	3413
6	32°32.0'	2273	21°16.9'	2489	54°51.3'	2232	-	-
7	31°56.4'	2278	20°43.1'	2509	54°15.4'	2236	-	-
8	31°20.9'	2282	20°09.4'	2531	53°39.5'	2241	-	-
9	30°45.5'	2287	19°35.9'	2554	53°03.7'	2245	-	-
10	30°10.0'	2292	19°02.6'	2579	52°27.9'	2250	-	-
11	29°34.6'	2297	18°29.5'	2606	51°52.2'	2255	-	-
12	28°59.3'	2302	17°56.5'	2636	51°16.5'	2259	-	-
13	28°24.0'	2307	17°23.8'	2668	50°40.8'	2264	-	-
14	27°48.7'	2312	16°51.4'	2703	50°05.2'	2269	-	-
15	27°13.4'	2317	16°19.2'	2741	49°29.6'	2274	-	-
16	26°38.3'	2322	15°47.3'	2783	48°54.1'	2279	-	-
17	26°03.1'	2327	15°15.6'	2830	48°18.6'	2284	-	-
18	25°28.0'	2333	14°44.4'	2881	47°43.1'	2289	-	-
19	24°52.9'	2338	14°13.5'	2938	47°07.7'	2294	-	-
20	24°17.9'	2344	13°43.0'	3002	46°32.3'	2299	-	-
21	23°42.9'	2349	13°12.9'	3074	45°57.0'	2304	-	-
22	23°08.0'	2355	12°43.3'	3155	45°21.7'	2309	-	-
23	22°33.1'	2360	12°14.3'	3248	44°46.4'	2314	-	-

Wed Oct 30, 2019 UTC

UTC	–Jupiter		–Saturn		–Antares		–Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	21°58.3'	2366	44°11.2'	2320	11°45.9'	3353	93°53.8'	2495
1	21°23.5'	2372	43°36.0'	2325	11°18.2'	3473	93°20.0'	2500
2	20°48.7'	2378	43°00.9'	2330	–	–	92°46.3'	2505
3	20°14.0'	2384	42°25.8'	2336	–	–	92°12.6'	2510
4	19°39.4'	2390	41°50.8'	2341	–	–	91°38.9'	2516
5	19°04.7'	2396	41°15.8'	2347	–	–	91°05.3'	2521
6	18°30.2'	2402	40°40.8'	2352	–	–	90°31.7'	2526
7	17°55.7'	2408	40°05.9'	2358	–	–	89°58.2'	2532
8	17°21.2'	2415	39°31.1'	2363	–	–	89°24.7'	2537
9	16°46.8'	2421	38°56.2'	2369	–	–	88°51.2'	2543
10	16°12.4'	2428	38°21.5'	2374	–	–	88°17.8'	2548
11	15°38.1'	2434	37°46.7'	2380	–	–	87°44.5'	2554
12	15°03.9'	2441	37°12.0'	2386	–	–	87°11.1'	2560
13	14°29.7'	2448	36°37.4'	2391	–	–	86°37.9'	2566
14	13°55.5'	2456	36°02.8'	2397	–	–	86°04.6'	2572
15	13°21.4'	2463	35°28.3'	2403	–	–	85°31.4'	2578
16	12°47.4'	2471	34°53.8'	2409	–	–	84°58.3'	2584
17	12°13.5'	2479	34°19.3'	2415	–	–	84°25.2'	2590
18	11°39.6'	2488	33°44.9'	2420	–	–	83°52.1'	2596
19	11°05.7'	2497	33°10.5'	2426	–	–	83°19.1'	2602
20	10°32.0'	2506	32°36.2'	2432	–	–	82°46.2'	2609
21	9°58.3'	2516	32°01.9'	2438	–	–	82°13.3'	2615
22	9°24.6'	2527	31°27.7'	2444	–	–	81°40.4'	2621
23	8°51.1'	2539	30°53.5'	2450	–	–	81°07.6'	2628

Thu Oct 31, 2019 UTC

UTC	–Jupiter		–Saturn		+Venus		–Formalhaut		–Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	8°17.7'	2552	30°19.4'	2456	17°34.0'	2949	80°34.8'	2634	52°09.8'	3652
1	7°44.3'	2567	29°45.3'	2462	18°04.4'	2950	80°02.1'	2641	51°43.9'	3678
2	7°11.1'	2585	29°11.3'	2468	18°34.8'	2951	79°29.5'	2648	51°18.2'	3704
3	6°38.0'	2605	28°37.3'	2474	19°05.3'	2953	78°56.9'	2654	50°52.6'	3731
4	6°05.1'	2630	28°03.3'	2480	19°35.7'	2955	78°24.3'	2661	50°27.2'	3758
5	5°32.3'	2660	27°29.4'	2486	20°06.0'	2958	77°51.8'	2668	50°02.0'	3786
6	4°59.8'	2701	26°55.6'	2492	20°36.4'	2961	77°19.3'	2675	49°36.9'	3815
7	4°27.6'	2755	26°21.8'	2498	21°06.7'	2964	76°46.9'	2681	49°11.9'	3845
8	3°55.8'	2833	25°48.0'	2504	21°37.1'	2967	76°14.5'	2688	48°47.2'	3875
9	–	–	25°14.3'	2510	22°07.4'	2971	75°42.2'	2695	48°22.6'	3906
10	–	–	24°40.6'	2516	22°37.6'	2975	75°10.0'	2702	47°58.2'	3938
11	–	–	24°07.0'	2522	23°07.9'	2979	74°37.8'	2710	47°34.0'	3970
12	–	–	23°33.5'	2528	23°38.1'	2983	74°05.6'	2717	47°09.9'	4004
13	–	–	22°59.9'	2534	24°08.3'	2988	73°33.5'	2724	46°46.0'	4039
14	–	–	22°26.5'	2540	24°38.4'	2992	73°01.5'	2731	46°22.4'	4074
15	–	–	21°53.0'	2547	25°08.6'	2997	72°29.5'	2739	45°58.9'	4110
16	–	–	21°19.7'	2553	25°38.7'	3002	71°57.6'	2746	45°35.6'	4148
17	–	–	20°46.3'	2559	26°08.7'	3006	71°25.7'	2753	45°12.5'	4186
18	–	–	20°13.0'	2565	26°38.7'	3011	70°53.8'	2761	44°49.6'	4226
19	–	–	19°39.8'	2571	27°08.7'	3017	70°22.1'	2768	44°26.9'	4266
20	–	–	19°06.6'	2577	27°38.7'	3022	69°50.4'	2776	44°04.5'	4308
21	3°42.0'	2869	18°33.5'	2584	28°08.6'	3027	69°18.7'	2783	43°42.2'	4351
22	4°13.0'	2819	18°00.4'	2590	28°38.5'	3032	68°47.1'	2791	43°20.2'	4395
23	4°44.3'	2785	17°27.3'	2596	29°08.4'	3038	68°15.5'	2799	42°58.4'	4441